### Thioflavine S

Cat. No.:	HY-D0972
CAS No.:	1326-12-1
Target:	Fluorescent Dye
Pathway:	Others
Storage:	4°C, protect from light
	* In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)

## Product Data Sheet

**Thioflavin S** 

# SOLVENT & SOLUBILITY In Vitro H₂O: ≥ 50 mg/mL \* "≥" means soluble, but saturation unknown. In Vivo 1. Add each solvent one by one: PBS

Solubility: 100 mg/mL (Infinity mM); Clear solution; Need ultrasonic and warming and heat to 60°C

Discription       Thioflavine S is a fluorescent histochemical marker of dense core senile plaques. Thioflavine S can be used for Alzheimer's research <sup>[1]</sup> .         In Vitro       Thioflavine S staining protocol         1.Deparaffinization and hydration of tissue sections: Place slides in holders and treat with the clearing agent xylene (paraffin solvent) and a series of graded EtOH as follows:         100% xylene - 5 min       100% xylene - 5 min         50%/50% xylene/100% EtOH - 3 min       50%/50% and a series of graded EtOH as follows:         100% tother - 5 min       100% tother - 3 min         50%/50% xylene/100% EtOH - 3 min       50%/50% and a series of graded EtOH and and a series of graded EtOH as follows:	BIOLOGICAL ACTIVITY		
1.Deparaffinization and hydration of tissue sections: Place slides in holders and treat with the clearing agent xylene (paraffin solvent) and a series of graded EtOH as follows: 100% xylene - 5 min 100% xylene - 5 min 50%/50% xylene/100% EtOH - 3 min 100% EtOH - 3 min			
<ul> <li>35% EUGH - 3 min</li> <li>70% EtOH - 3 min</li> <li>50% EtOH - 3 min</li> <li>Water - 2 x 3 min</li> <li>Note: Change the solns after about 5 uses or when you see the soln is not cleanly running off the slides, indicating too much paraffin in them.</li> <li>2.Incubate in filtered 1% aqueous Thioflavine-S for 8 minutes at room temperature (filter Thioflavin-S before each use).</li> <li>Note: protect thioflavin-S from light, and protect the stained slides from light as much as possible. Thioflavin-S stain should be stored at 4<sup>III</sup>.</li> <li>3.Wash 2x 3 min in 80% ethanol</li> <li>4.Wash 3 min in 95% ethanol</li> <li>5.Wash with 3 exchanges of distilled water</li> <li>6.Coverslip in aqueous mounting media and allow slides to dry in the dark overnight.</li> </ul>	In Vitro		



7.Next day, seal coverslip with clear nail polish.

8.Analyze slides within the next few days-weeks because the staining will fade with time. Store the slides in the dark at 4MCE has not independently confirmed the accuracy of these methods. They are for reference only.

### **CUSTOMER VALIDATION**

- Adv Mater. 2022 Oct 4;e2207107.
- EBioMedicine. 2022 Apr;78:103980.
- Basic Res Cardiol. 2021 Dec 16;116(1):65.
- Alzheimers Res Ther. 2024 Jan 20;16(1):15.
- J Ginseng Res. 2021 Mar 22.

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#### REFERENCES

[1]. McLellan ME, et al. In vivo imaging of reactive oxygen species specifically associated with thioflavine S-positive amyloid plaques by multiphoton microscopy. J Neurosci. 2003 Mar 15;23(6):2212-7.

Caution: Product has not been fully validated for medical applications. For research use only.

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